

Sapphire windows

The most frequently requested specifications for sapphire windows are as follows:

Diameter range	less than 5mm to 300mm
Diameter tolerance	better than ± 0.1 mm
Centre thickness	up to 50mm
Centre thickness tolerance	better than ± 0.05 mm
Clear aperture	90%
Centration tolerance	better than 1 arc minute
Form error	better than $\lambda/4$ (633nm) over aperture
Surface radius tolerance	less than 1 fringe over aperture
Linear dimension	up to 120mm
Linear tolerance	better than ± 0.1 mm
Angular tolerance	better than 5 arc minutes
Edge finish	ground, blacked
Chamfer	0.3x0.3@45°
Surface quality	40-20 scratch/ dig

Coatings

BBAR coating @1-5 μ m

Diamond-Like Carbon (DLC) coating @1-5 μ m

Our capabilities are always expanding so if your requirement is not mentioned above please enquire as we have many years of experience in this field.

Contact our multilingual technical sales team and discover how Knight Optical's high quality sapphire window capabilities and service can improve your instrumentation and supply chain experience.

+44 (0)1622 859444
info@knightoptical.co.uk
www.knightoptical.com

